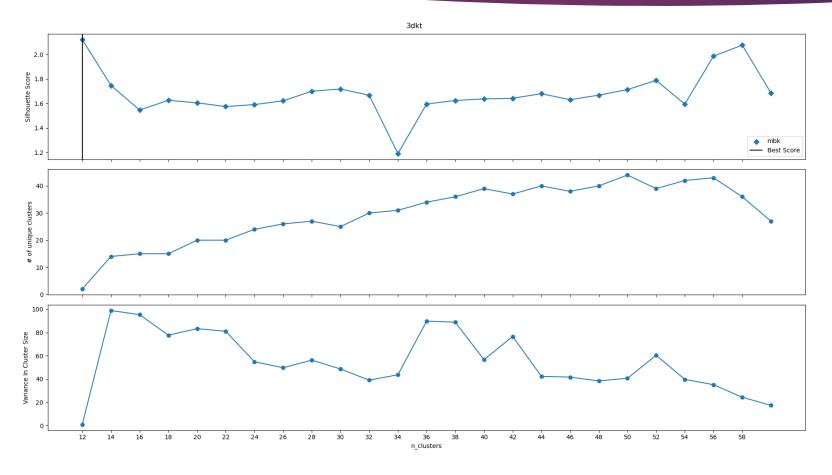
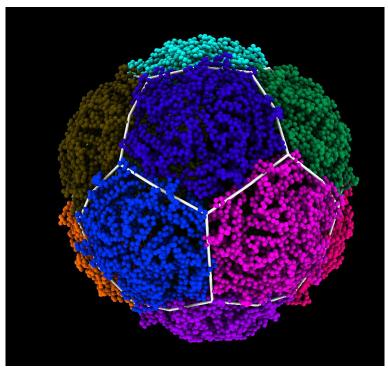
### HK97 Results

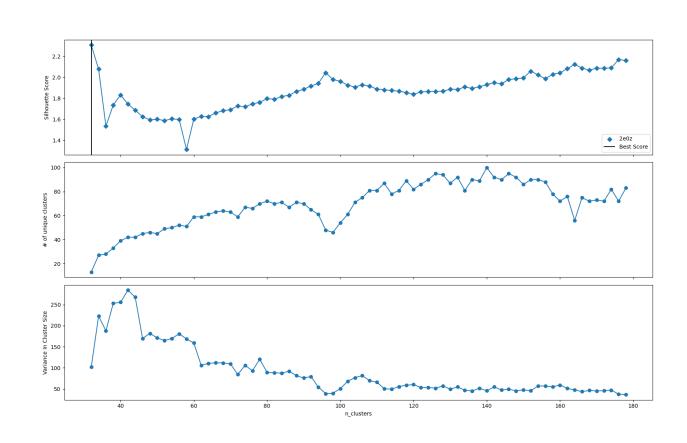
#### Thermotoga Maritima Encapsulin (3dkt)

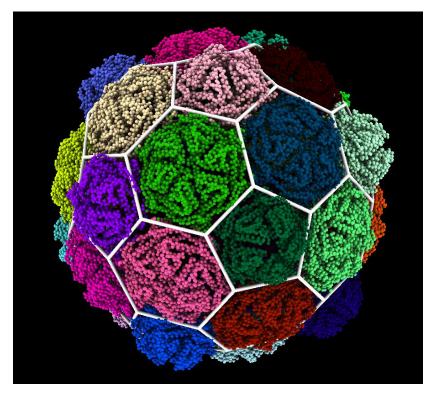




T=1 Hexagonal 12 Pentagonal Clusters Containing 5 MCPs

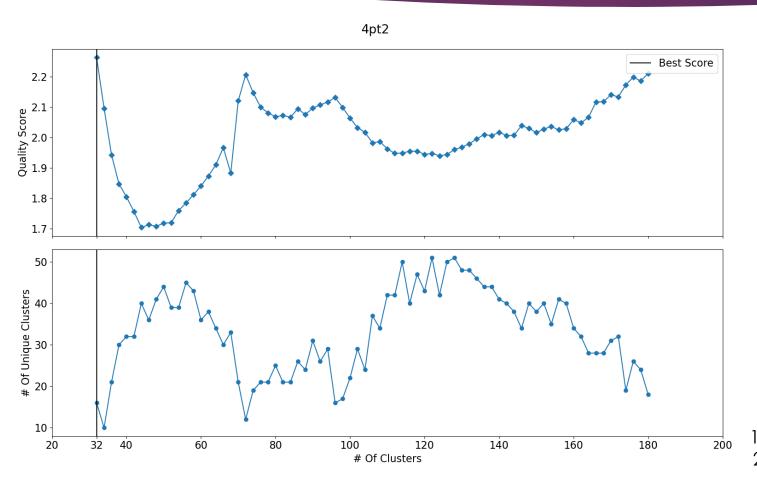
#### VLP From Pyrococcus Furiosus (2e0z)

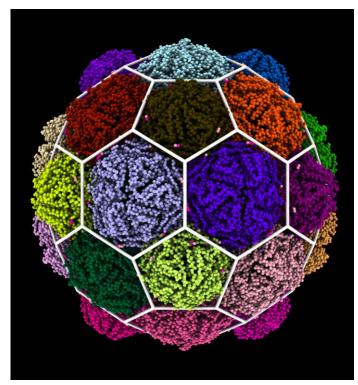




T=3 Hexagonal 12 Pentagonal Clusters containing 5 MCPs 20 Hexagonal Clusters containing 6 MCPs

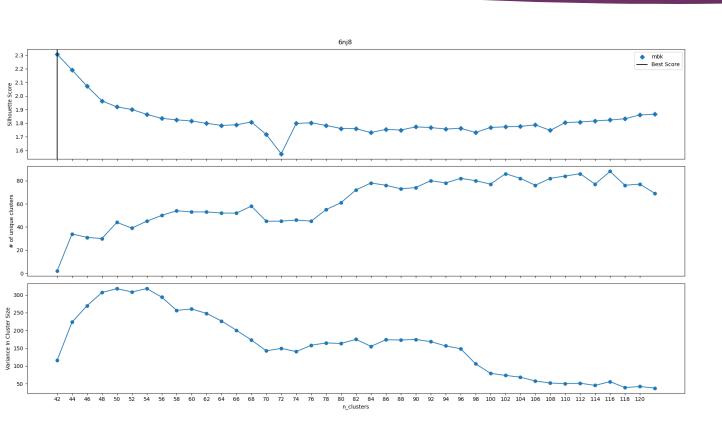
#### Myxococcus Xanthus Encapsulin (4pt2)

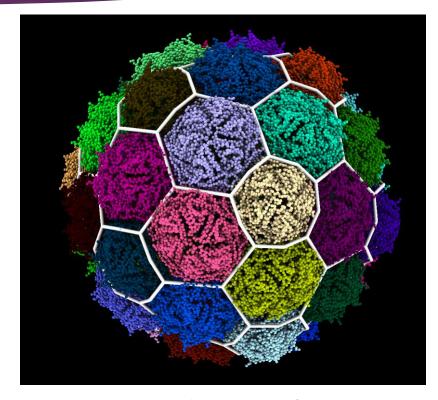




T=3 Hexagonal 12 Pentagonal Clusters containing 5 MCPs 20 Hexagonal Clusters containing 6 MCPs

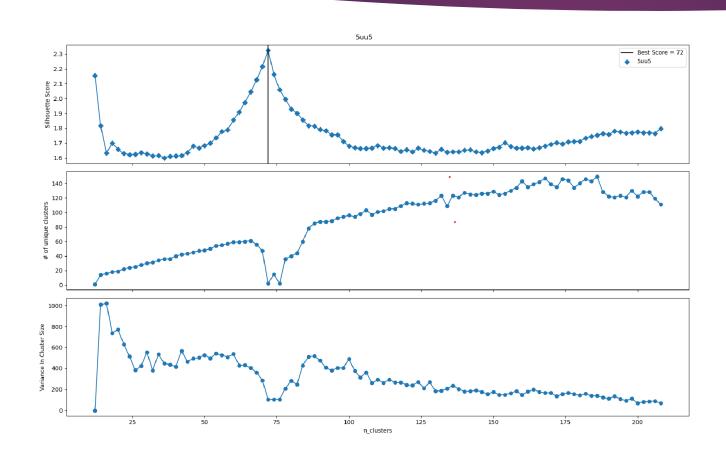
## Iron Storage Encapsulin From Quasibacillus thermotolerans (6nj8)

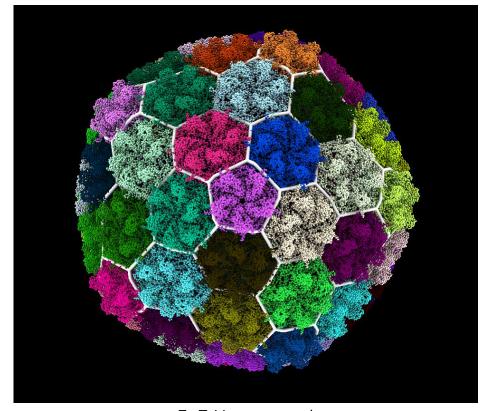




T=4 Hexagonal 12 Pentagonal Clusters containing 5 MCPs 30 Hexagonal Clusters containing 6 MCPs

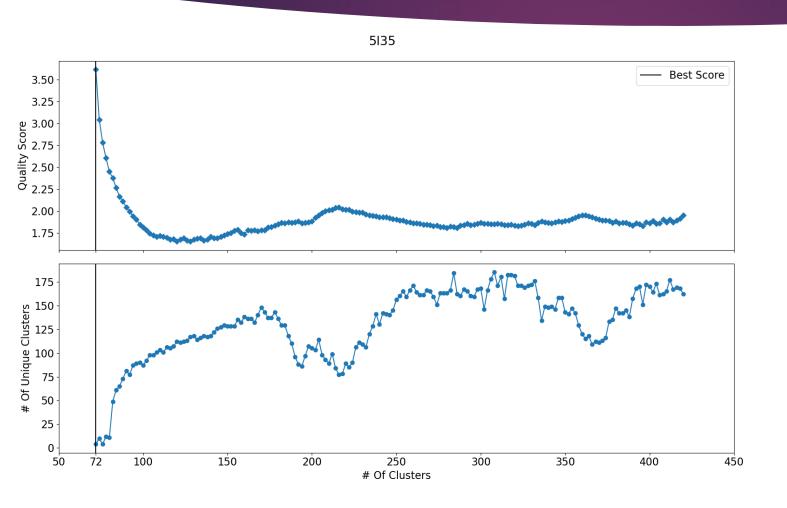
# Bacteriopohage P22 Mature Virion (5uu5)

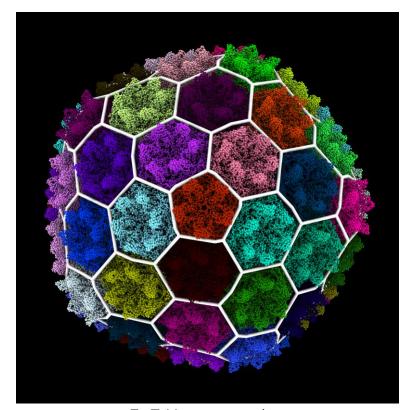




T=7 Hexagonal 12 Pentagonal Clusters containing 5 MCPs 60 Hexagonal Clusters containing 6 MCPs

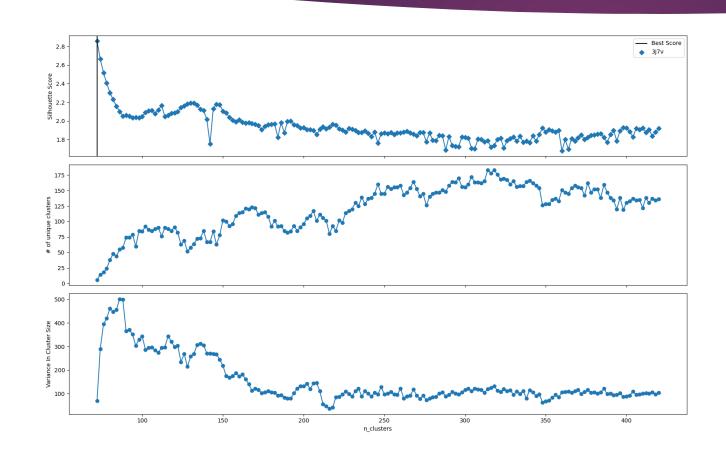
#### Bacteriopohage Sf6 (5l35)

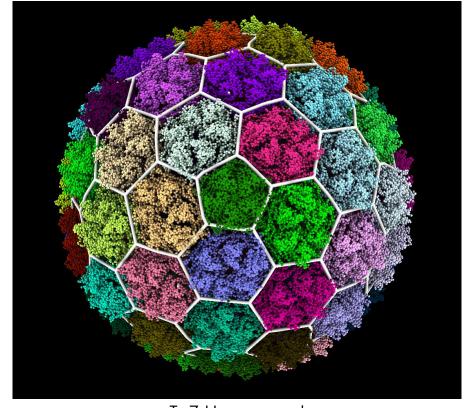




T=7 Hexagonal 12 Pentagonal Clusters containing 5 MCPs 60 Hexagonal Clusters containing 6 MCPs

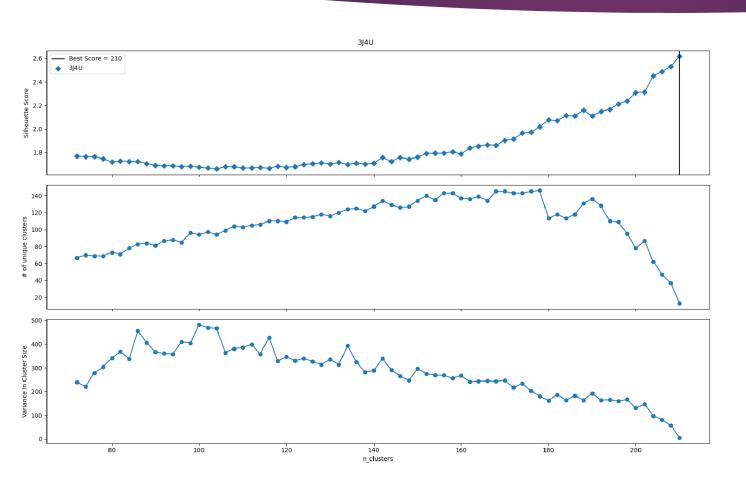
### Bacteriopohage T7 Procapsid (3j7v)

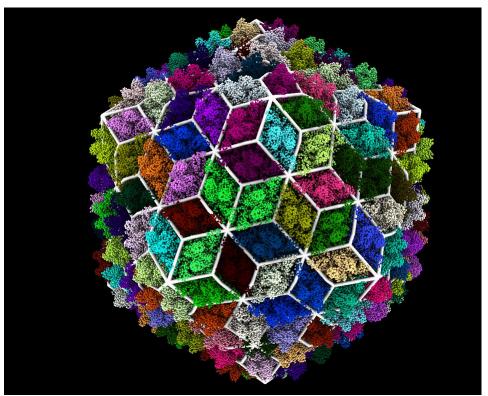




T=7 Hexagonal 12 Pentagonal Clusters containing 5 MCPs 60 Hexagonal Clusters containing 6 MCPs

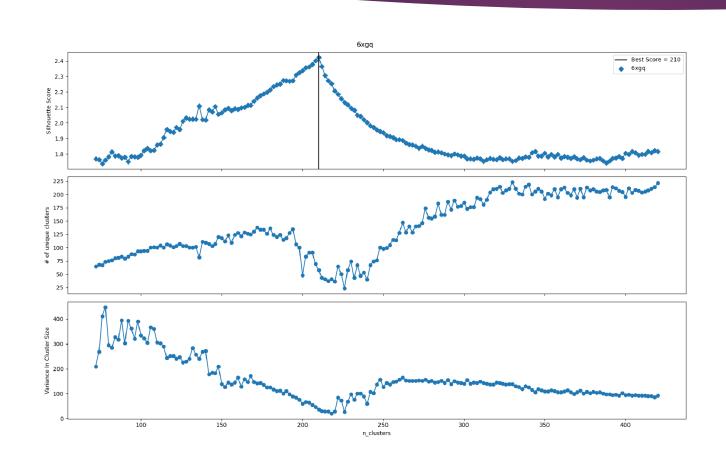
#### Bordetella Bacteriophage (3j4u)

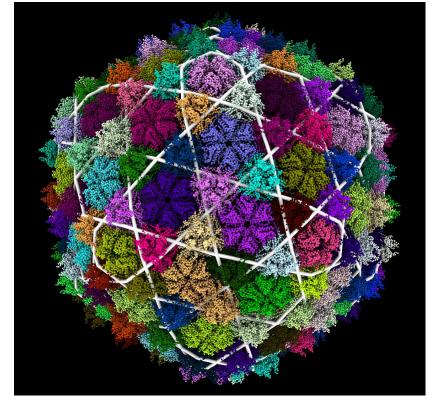




T=7 Trihex-Dual (Imperfect Clustering)
210 Clusters Containing ~2 MCPs and 2 mCPs

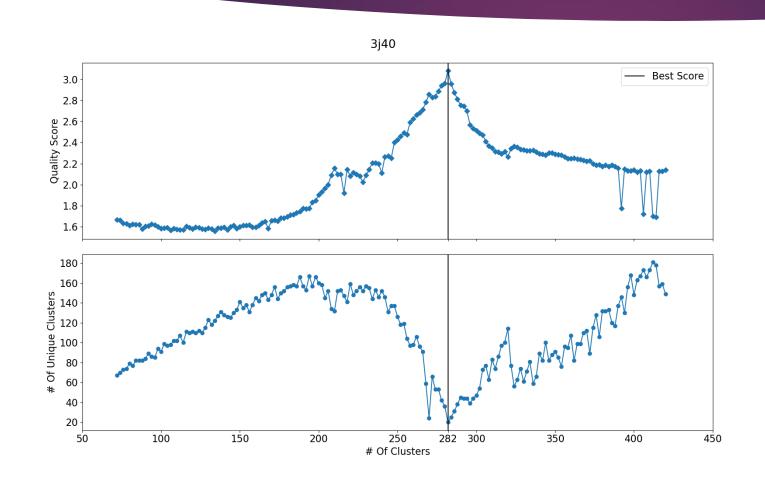
#### YSD1 Bacteriophage (6xgq)

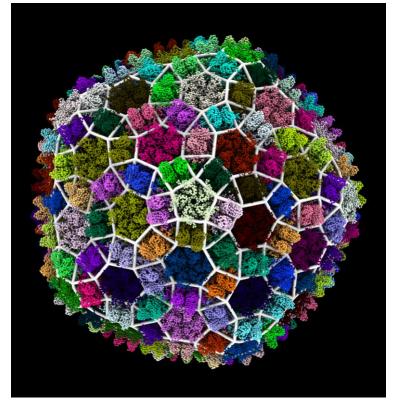




T=7 Trihexagonal (Imperfect Clustering)
12 Pentagonal Clusters containing 5 MCPs
60 Hexagonal Clusters containing 6 MCPs
140 Triangular Clusters containing 3 mCPs and MCP Extended Domains

#### Bacteriophage Epsilon15 (3j40)





T=7 Pseudo-Rhombitrihexagonal
12 Pentagonal Clusters containing 5 MCPs
60 Hexagonal Clusters containing 6 MCPs
210 Clusters containing 2 mCPs and MCP Extended Domains

#### Discussion

- ▶ P22 lacked reinforcement proteins and was labelled as hexagonal
- Bordetella and Phage YSD1 had reinforcement proteins around the local 2-fold and 3-fold axes respectively and were labeled as trihex-dual and trihex.
- ► This suggests the presence and location of reinforcement proteins could determine lattice structure.
- ▶ Both Bordatella and YSD1 had error in their label assignments. The tool becomes less accurate at a large number of clusters.